***Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ P: \_\_\_\_\_\_\_***

HW #28

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| 1. In the figure below, lines *a* and *b* are parallel, and 9 = 100. Find 1. | 1. Shawna is going to re-brick her house. There will be no space between the bricks; the bricks measure 2 inches wide by 6 inches long by 3 inches tall. If her wall is a rectangle that measures 13 feet by 8 feet, what is the minimum number of bricks needed to fully cover her wall? |
| 3. If the base of a triangle is represented by x + 4 and the height is represented by 2x, which expression represents the area of the triangle?  A. (x+4) + 2x  B. (x + 4)(2x)  C. ((x + 4) + (2x))  D. (x + 4) (2x) | 4. The length of a side of a square window in Jessica’s bedroom is represented by 2x -1. Which expression represents the area of the window?  A. 2x2 + 1  B. 4x2 + 1  C. 4x2 + 4x – 1  D. 4x2 - 4x + 1 |
| 12. Find the value of x. | What is the value of x?   * 1. 40   2. 50   3. 60   4. 70 |
| The perimeter of a rectangle is 56 inches. The length is 4 times as long as the width. Find the area of the rectangle. | Two of the sides of rectangle ABCE are 6 units longer than the other two sides. If the perimeter of the rectangle ABCE is 48 units, what is the area of the rectangle? |
| A certain triangle has a base of 2. Its height is 3 times the base. Suppose the height and the base are both doubled. The area of the second triangle is how many times as large as the area of the first. | |

**GRASP PROBLEMS: Please GRASP both problems on separate sheets of paper**



